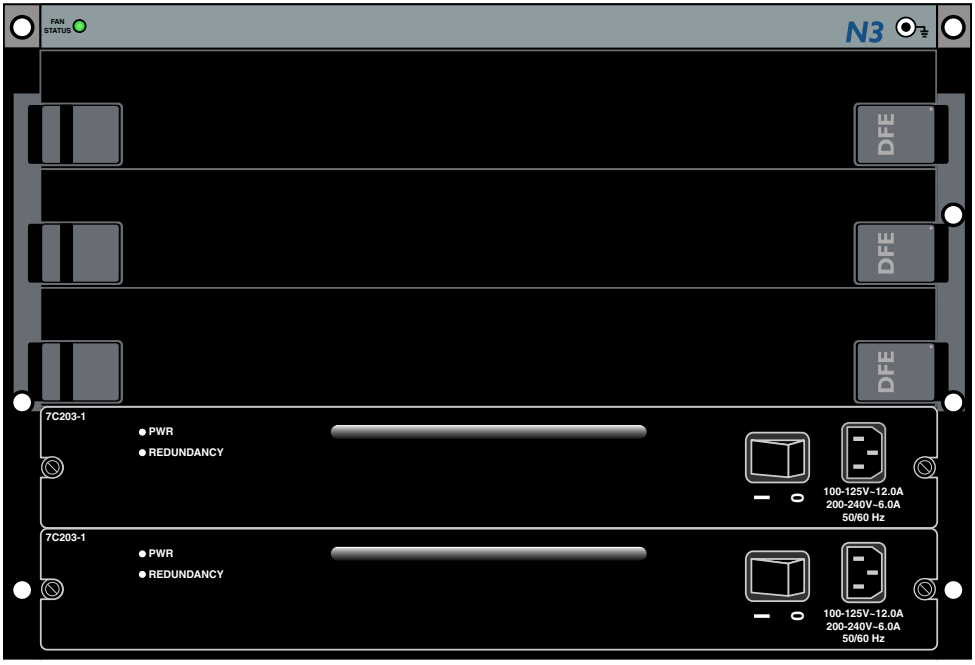
Matrix N3 7C103 Chassis Installation Guide



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Manufacturer's Name:	**Enterasys Networks, Inc.**
Manufacturer's Address:	**50 Minuteman Road** **Andover, MA 01810** **USA**
European Representative Address:	**Enterasys Networks, Ltd.** **Nexus House, Newbury Business Park** **London Road, Newbury** **Berkshire RG14 2PZ, England**
Conformance to Directive(s)/Product Standards:	**EC Directive 89/336/EEC** **EN 55022** **EN 55024** **EC Directive 73/23/EEC** **EN 60950**
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About This Guide

This guide lists features and options of the Enterasys Matrix™ N3 7C103 chassis and explains how to install the power supplies and remove and reinstall the fan tray.

WHO SHOULD USE THIS GUIDE

Electrical Hazard: Only qualified personnel should perform installation procedures.

Riesgo Electrico: Solamente personal calificado debe realizar procedimientos de instalacion.

Elektrischer Gefahrenhinweis: Installationen sollten nur durch ausgebildetes und qualifiziertes Personal vorgenommen werden.

This guide is intended for a network administrator responsible for installing and setting up the 7C103 chassis. A general working knowledge of data communications networks is helpful when setting up the 7C103 chassis.

Read through this guide completely to familiarize yourself with its contents and to gain an understanding of the features and capabilities of the 7C103 chassis.

Note: In this guide, the Matrix N3 7C103 chassis is also referred to as the chassis.

STRUCTURE OF THIS GUIDE

This guide is organized as follows:

This preface provides preliminary information to help you use this guide and a brief summary of each chapter. It also discusses the Matrix Series manual set and defines conventions used throughout this document.

Chapter 1, **Introduction**, describes the features and capabilities of the chassis, and how to get help, if needed.

Chapter 2, **Installation Requirements and Guidelines**, lists the installation site requirements that must be met before installing the chassis in a cabinet or rack. This chapter also includes configuration guidelines, and operating specifications for the chassis enclosure and power supply modules.

Chapter 3, **Chassis Setup**, contains instructions for installing the chassis as a standalone or rack-mounted unit, installing and removing the power supply modules, removing and reinstalling the fan tray, and powering up the chassis.

Appendix A, **Specifications and Regulatory Compliance**, lists environmental and operating specifications for the chassis, power supply modules, and the fan tray.

USING THE MATRIX SERIES MANUAL SET

Separate manuals have been developed for the Matrix DFE modules that can be installed in the Matrix N3 chassis. These manuals explain how to install the DFE modules, attach cable segments to the modules, and configure the modules using a command line interface to manage the system after the installation of the chassis and modules is complete. The specifications for the modules are included in their respective manual.

Each manual in this set assumes that the qualified personnel installing the module has a general working knowledge of data communications networks and their physical layer components.

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DOCUMENT CONVENTIONS

This guide uses the following conventions:

The following conventions are used in this guide:

Note: Calls the reader's attention to any item of information that may be of special importance.

Caution: Contains information essential to avoid damage to the equipment.

Cautela: Contiene información esencial para prevenir dañar el equipo.

Achtung: Verweißt auf wichtige Informationen zum Schutz gegen Beschädigungen.

Electrical Hazard: Warns against an action that could result in personal injury or death due to an electrical hazard.

Riesgo Electrico: Advierte contra una acción que pudiera resultar en lesión corporal o la muerte debido a un riesgo eléctrico.

Elektrischer Gefahrenhinweis: Warnung vor sämtlichen Handlungen, die zu Verletzung von Personen oder Todesfällen – hervorgerufen durch elektrische Spannung – führen können!

Warning: Warns against an action that could result in personal injury or death.

Advertencia: Advierte contra una acción que pudiera resultar en lesión corporal o la muerte.

Warnhinweis: Warnung vor Handlungen, die zu Verletzung von Personen oder gar Todesfällen führen können!

1

Introduction

This chapter provides an overview of the 7C103 chassis and its features. Also covered in this chapter are the instructions on how to obtain additional help from Enterasys Networks™ if needed.

1.1 OVERVIEW

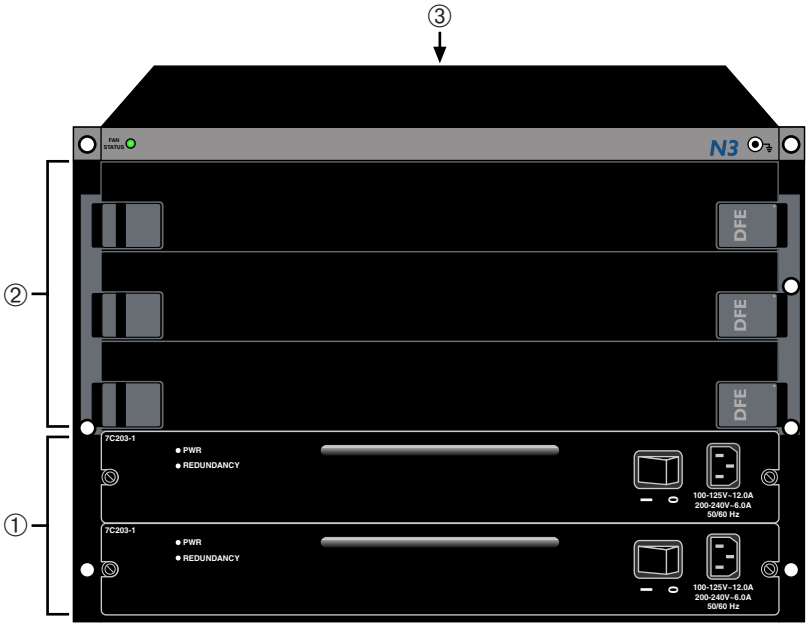
The 7C103 chassis provides three slots that can contain a variety of modules. The chassis backplane supports a new generation of advanced switching modules (7Hxxxx and 7Gxxxx series).

The 7C103 chassis

- uses a distributed switching architecture,
- allows hot swapping of the modules, and fan assembly,
- supports redundant power supplies, and
- can be installed as a freestanding chassis or installed into a standard 48.26-centimeter (19-inch) rack, occupying only 36 centimeters (14 inches) of vertical rack space.

The power supplies and modules are installed from the front of the chassis for ease of maintenance. Removal and re-installation of the fan assembly is from the rear of the chassis. All LED indicators are observable from the front of the chassis to aid in monitoring network operational status and performing maintenance. Figure 1-1 illustrates the chassis equipped with three modules and two 7C203-1 redundant power supplies.

Figure 1-1 The 7C103 Chassis with Redundant Power Supplies



① Two slots for 7C203-1 power supplies

② Three slots for 7Hxxxx and 7Gxxxx series modules

③ Fan Tray located at the rear of the chassis

1.2 FEATURES

The following provides an overview of the chassis features.

Matrix N3 Chassis Modules

The Matrix N3 7C103 chassis has three slots that support 7Hxxxx and 7Gxxxx series modules. This provides the flexibility to configure the chassis with modules available to support 10/100/1000 Ethernet and Gigabit Ethernet to WAN and ATM applications.

Redundant Power Supplies

The 7C103 chassis supports up to two 7C203-1 power supplies in the lower two slots of the chassis labeled PS1 and PS2. One power supply provides sufficient power for a chassis that is fully loaded with modules. However, a second power supply may be installed to provide redundancy and load sharing.

When two power supplies are installed, each power supply is capable of load sharing 50% (+/- 5%) of the total power required by the chassis. This not only provides redundancy, it also extends the life of the power supplies. If one power supply fails, the other power supply supports the entire power load of the chassis without interruption to network traffic. Refer to Section 2.1 for power outlet requirements.

Power Supply LANVIEW® LEDs

Each power supply comes equipped with LANVIEW LEDs for at-a-glance diagnostics that indicate individual power supply status and overall chassis redundancy status. Refer to Chapter 2, **Installation Requirements and Guidelines**, for a full explanation of the power supply LEDs and their definitions.

Power Supply Status via Management

The 7C203-1 power supplies report information to the modules installed in the chassis regarding their present operating status as well as the fan tray status. This information includes the following:

- Power Supply ID (PS1, PS2)
- Power Supply Status (normal/fault/not installed)
- Power Supply Redundancy Indication (redundant/not available)
- Fan Status (normal/fault)

Refer to the module-specific user's guide for instructions on how to access power supply status information via Local Management.

Auto-Ranging Power Supplies

The 7C203-1 power supplies automatically adjust to the input voltage ranges of 100 to 125 Vac, or 200 or 250 Vac, with a frequency range of 50 to 60 Hz. For more details, refer to the operating specifications in Appendix A. No additional adjustments are necessary. For installations in North America, one 15 A power cord is required for each power supply. See Section 3.3 for more details.

Power Supply Replacement

To reduce network downtime, a power supply may be removed after it has been powered down. When two power supplies are installed, this allows you to remove one power supply without powering down the chassis and interrupting network traffic.

Chassis Cooling System

The 7C103 chassis features a removable 7C403 fan tray, which is accessible from the rear of the chassis. The fan tray is hot swappable, which allows you to replace it without powering down the chassis.

Caution: Although the fan tray is hot swappable, do not run the chassis for extended periods of time without the fan tray, as the chassis will quickly overheat and cause component damage.

The operating status of the fan tray (normal/fault/not installed) is indicated by one LANVIEW LED located at the top-left front of the chassis. Refer to Chapter 2 for a full description of the fan tray LED states.

1.3 GETTING HELP

For additional support related to the chassis or this document, contact Enterasys Networks using one of the following methods:

World Wide Web	http://www.enterasys.com/support
Phone	603-332-9400 1-800-872-8440 (toll-free in U.S. and Canada) For the Enterasys Networks Support toll-free number in your country: **http://www.enterasys.com/support/gtac-all.html**
Internet mail	**support@enterasys.com** To expedite your message, please type **[eth]** in the subject line.
To send comments or suggestions concerning this document to the Technical Writing Department: **techwriting@enterasys.com** To expedite your message, please type **[techwriting]** in the subject line, and include the document Part Number in the email message.	

Before contacting Enterasys Networks for technical support, have the following information ready:

- Your Enterasys Networks service contract number
- A description of the failure
- A description of any action(s) already taken to resolve the problem (e.g., changing mode switches, rebooting the unit, etc.)
- The serial and revision numbers of all involved Enterasys Networks products in the network
- A description of your network environment (layout, cable type, etc.)
- Network load and frame size at the time of trouble (if known)
- The device history (i.e., have you returned the device before, is this a recurring problem, etc.)
- Any previous Return Material Authorization (RMA) numbers

2

Installation Requirements and Guidelines

This chapter describes the following:

- Site guidelines that must be met before installing a 7C103 chassis into a rack or cabinet
- 7C103 chassis configuration guidelines
- Operating specifications for the 7C103 chassis enclosure and power supply modules

Electrical Hazard: Only qualified personnel should install or service this unit.

Riesgo Eléctrico: Nada mas personal capacitado debe de instalar o darle servicio a esta unida.

Elektrischer Gefahrenhinweis: Installationen oder Servicearbeiten sollten nur durch ausgebildetes und qualifiziertes Personal vorgenommen werden.

2.1 INSTALLATION SITE GUIDELINES

When determining an installation site for the 7C103 chassis, follow the guidelines outlined below.

- For proper cooling, there must be a minimum amount of clearance 15.2 centimeters (6 inches) behind the chassis and 5.08 centimeters (2 inches) of clearance on either side of the chassis.
- If installing the 7C103 chassis as a freestanding unit on a shelf, ensure that the shelf can support a minimum weight of approximately 32.4 kilograms (71 pounds) per fully loaded chassis plus the weight of the connected network cables. The weight includes the chassis, fan tray, two power supplies, and three modules.
- For access to the rear of the chassis to maintain, remove, or replace the fan tray, allow an area of 48.26 centimeters (19 inches) wide by 61 centimeters (24 inches) deep.
- If installing the 7C103 chassis in an equipment rack, ensure that the rack can support and remain stable with the chassis installed.
- Each 7C203-1 ac power supply requires a three-pronged power receptacle capable of delivering the current and voltage specified in Section A.2. An ac outlet on a separately fused circuit is required for each 7C203-1 to provide power redundancy, and must be located within 182 centimeters (6 feet) from the site. The power cord used and type of outlet is dependent on the country. In the United States, a power cord with a NEMA 5-15P plug is provided with each 7C203-1.
- Ambient temperature at the installation site must be maintained between 5° and 40°C (41° to 104°F). Temperature changes must be maintained within 10°C (18°F) per hour.

2.2 CONFIGURATION GUIDELINES

The 7C103 chassis has three slots that accept 7Hxxxx and 7Gxxxx modules. The slots are numbered 1 to 3. There are two slots near the bottom of the chassis that are strictly for power supplies. These slots are labeled PS1 and PS2.

Modules for the 7C103 chassis are equipped with a firmware-based management tool, which provides the capability to configure the module and access chassis, power supply, and fan tray information. WebView™ can also be used to manage the modules and chassis.

2.3 LANVIEW LEDs

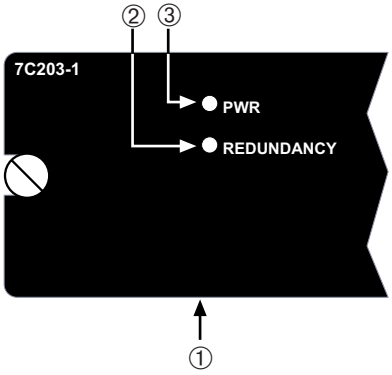
The following sections describe the LANVIEW® LED indications for the following:

- 7C203-1 power supply modules
- 7C403 fan assembly

2.3.1 Power Supply LEDs

There are two status LEDs on the power supply. Refer to Figure 2-1 for the location of the power supply LEDs. Table 2-1 describes the different states of the power supply LEDs under six different conditions. The power supplies are installed in chassis slots PS1 and PS2 in the front-bottom part of the chassis.

Figure 2-1 7C203-1 Power Supply LEDs



① 7C203-1 power supply front panel
② Power REDUNDANCY status LED
③ Power (PWR) supply status LED

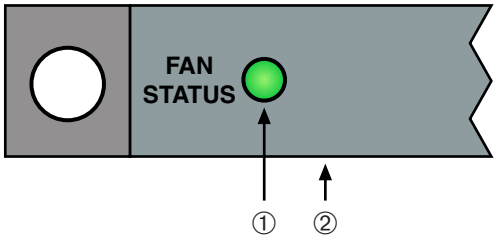
Table 2-1 Power Supply (PS) LED Status Definitions

			PS1 LEDs		PS2 LEDs	
PS1	**PS2**	**Load**	**PWR**	**REDUNDANCY**	**PWR**	**REDUNDANCY**
ON	OFF		Green	Amber	Red	Amber
OFF	ON		Red	Amber	Green	Amber
ON	Out of chassis		Green	Off	Off	Off
Out of chassis	ON		Off	Off	Green	Off
ON	ON	<50%	Green	Green	Green	Green
ON	ON	>50%	Green	Amber	Green	Amber

2.3.2 Fan Status LED

Refer to Figure 2-2 for the location of the fan status LED. Table 2-2 describes the different states of the LED.

Figure 2-2 Fan Status LED on Chassis Front Panel



① Fan Status LED ② Chassis top front panel

Table 2-2 Fan Status LED States and Their Definitions

LED Color	Status
Green	All fans are operating normally.
Red	One or more fan failures have occurred.

Note: When the chassis is first powered up, the Fan Status LED will display red briefly, until the fans are operating at the proper speed.

3

Chassis Setup

This chapter contains instructions on setting up the 7C103 chassis.

Equipment needed:

- Phillips screwdriver
- Flat blade screwdriver

Electrical Hazard: Only qualified personnel should install or service this unit.

Riesgo Eléctrico: Nada mas personal capacitado debe de instalar o darle servicio a esta unida.

Elektrischer Gefahrenhinweis: Installationen oder Servicearbeiten sollten nur durch ausgebildetes und qualifiziertes Personal vorgenommen werden.

A Phillips screwdriver is needed to install the chassis in a 48.26-centimeter (19-inch) equipment rack. A large flat blade screwdriver is needed to secure the power supplies and to remove and reinstall the fan assembly. Refer to Chapter 2 for guidelines that must be followed to install the 7C103 chassis.

3.1 UNPACKING THE CHASSIS

Note: Unpack the 7C103 chassis components only as needed. Leave the components in their respective shipping cartons until you are ready to install that component.

Caution: Observe all Electrostatic Discharge (ESD) precautions when handling sensitive electronic equipment.

To unpack the chassis, proceed as follows:

1. Remove the chassis from the shipping box. (Save the shipping box and materials in the event the chassis has to be reshipped.)
2. Remove the chassis from the protective plastic bag.

3. Examine the chassis carefully and check for damage. If any damage is noted, DO NOT install the chassis. Contact Enterasys Networks immediately (refer to Section 1.3).
4. Remove the accessory package.
5. Remove the package containing the four rubber feet/screw assemblies and six pan head 10-32 screws.
6. Remove the Electrostatic Discharge (ESD) wrist strap package.
7. Remove the Console Cable Kit and set aside. This kit is needed to set up the modules through Local Management.

3.2 SETTING UP THE CHASSIS

The following sections describe the procedures that must be followed to complete the chassis installation.

3.2.1 Order of Installation

Once a suitable site has been chosen following installation site guidelines described in Section 2.1, the chassis can be installed as a freestanding or rack-mounted unit.

It is recommended that the chassis installation proceed in the following order:

1. Install the rubber feet (for freestanding installation). (Section 3.2.2)
2. Mount the chassis to a 48.26-centimeter (19-inch) rack or other secure location. (Section 3.2.3)
3. Attach the Electrostatic Discharge wrist strap. (Section 3.2.4)
4. Install the power supply module(s). (Section 3.2.5)

3.2.2 Installing the Rubber Feet

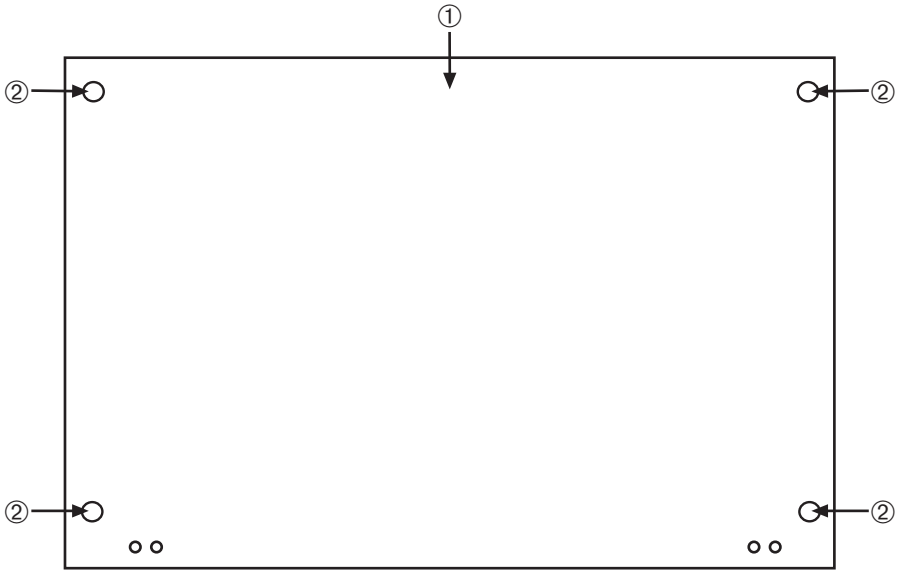
If you are installing the 7C103 chassis as a freestanding device, start with this section to install the rubber feet. To install the chassis in a rack, rubber feet are not needed. Therefore, start with Section 3.2.3 to install the chassis in a rack.

Note: Before installing the rubber feet, place the chassis on its back on a sturdy flat surface to access the bottom of the chassis.

To install the rubber feet, refer to Figure 3-1 and proceed as follows:

1. Place the chassis on its back on a sturdy flat surface to access the bottom of the chassis ①.
2. Remove the four rubber foot/screw assemblies from their plastic bag in the shipping box.
3. Locate the four tapped holes ② in the four corners on the bottom of the chassis.

Figure 3-1 Chassis Bottom, Rubber Feet Placement



① Bottom of chassis ② Tapped hole for rubber foot (four locations)

4. Screw, by hand, each of the rubber foot/screw assemblies into the four tapped holes. Then, tighten the rubber foot/screw assemblies with a Phillips screwdriver.
5. After installing the rubber feet, return the chassis to its upright position. Proceed to Section 3.2.4 and Section 3.2.5 for instructions to connect the Electrostatic Discharge (ESD) wrist strap and install the power supply modules, respectively.

3.2.3 Rack Mounting the Chassis

When installing the 7C103 chassis into a standard 48.26-centimeter (19-inch) equipment rack,

- allow at least 61 centimeters (24 inches) of clearance in front and behind the rack for chassis installation and maintenance, and
- keep in mind that the chassis requires at least 36 centimeters (15 inches) of vertical rack space.

Caution: Read Chapter 2 before completing the following procedure to ensure that all installation guidelines are met.

To install the chassis, refer to Figure 3-2 and proceed as follows:

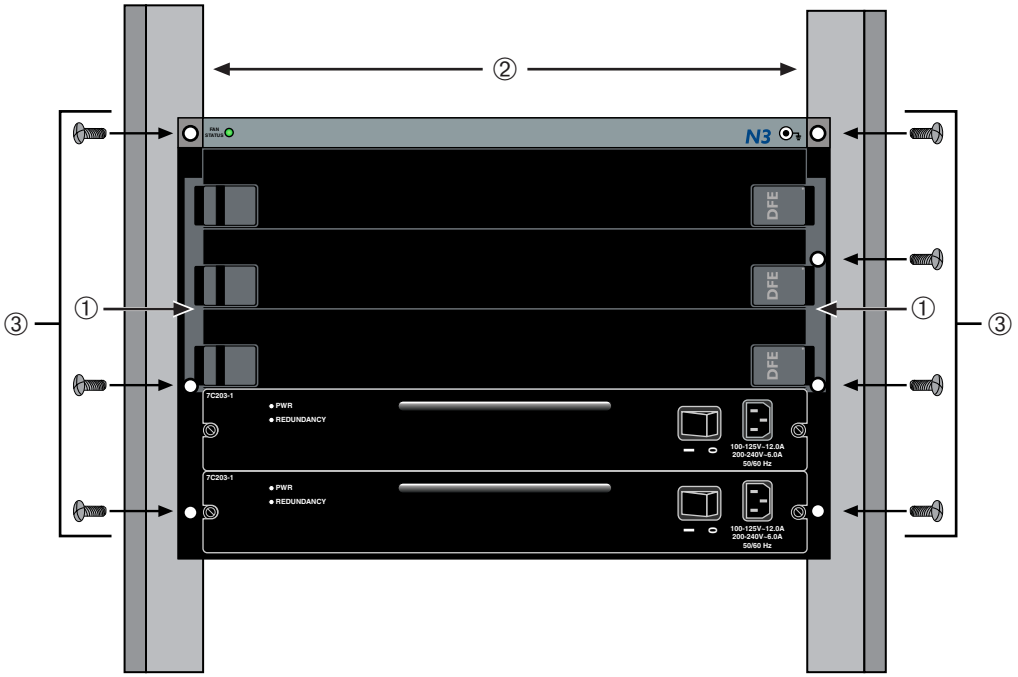
Warning: To help prevent personal injury, at least two people are required to lift the chassis into the rack.

Advertencia: Para ayudar a prevenir alguna lesión personal , al menos dos personas son requeridas para levantar el chasis y meterlo al rack.

Warnhinweis: Zum Schutz vor körperlichen Schäden, sollten sie mit min. zwei Personen das Chassis in das Rack heben.

1. Determine the location where you want to install the chassis in the rack.
2. Lift the chassis to align the holes in the chassis side rails ① with the tapped holes in the rails of the rack ②.
3. Use the seven 10-32 screws ③ shipped with the chassis to secure the chassis to the rack ②, starting with the bottom holes and working toward the top of the chassis.

Figure 3-2 Rack Mounting the Chassis



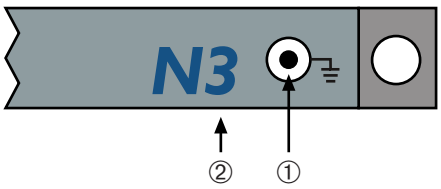
① Chassis side rails ② Equipment rack or cabinet ③ Rack mounting screws (7)

3.2.4 Attaching the Electrostatic Discharge Wrist Strap

The Electrostatic Discharge (ESD) wrist strap must be attached before handling the power supplies, fan tray, and modules used in the 7C103 chassis. In addition, observe all precautions when handling these modules to prevent damage from electrostatic discharge.

Refer to Figure 3-3. Place the ESD wrist strap on your wrist and plug the other end into the grounding receptacle ①, at the top right corner of the chassis ②.

Figure 3-3 ESD Grounding Receptacle



① ESD grounding receptacle ② Chassis front panel

3.2.5 Installing a Power Supply

You must install at least one 7C203-1 power supply into the 7C103 chassis. One power supply provides sufficient power for most module configurations, but a second power supply can be installed to provide a redundant, load sharing power source. When two power supplies are installed, the load is evenly distributed. If one power supply fails for any reason, the second power supply assumes the load. The two slots labeled PS1 and PS2 at the bottom of the chassis (Figure 3-4) are reserved for the power supplies. A large flat blade screwdriver is needed to install the power supplies.

Note: If you plan to configure the chassis with only one power supply module, install it in slot PS1. The chassis is shipped without a coverplate over slot PS1.

To install the power supply into the chassis, refer to Figure 3-4 and proceed as follows:

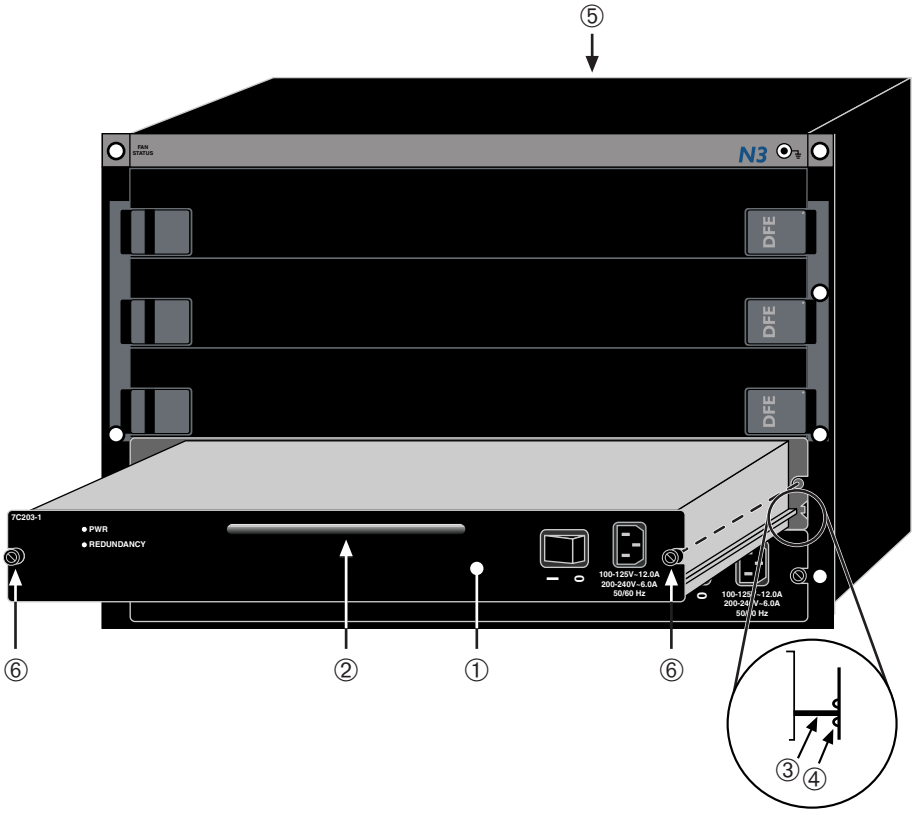
1. Unpack the power supply by removing it from the shipping box and sliding the two foam end caps off the unit. (Save the shipping box and materials in the event the unit must be reshipped.)
2. Remove the power supply from its protective plastic bag. (Save the shipping box and materials in the event the unit must be reshipped.)
3. Examine the power supply carefully, checking for damage. If any damage is noted, DO NOT install the power supply. Contact Enterasys Networks immediately.
4. Slide the power supply into the slot labeled PS1 as follows:
   a. Hold the power supply ① by grasping the handle ② located on the front panel and using the other hand to support the power supply.
   b. Holding the power supply ① horizontally, align the metal guides ③ of the power supply module with the metal guides ④ at each side of the chassis opening, as shown in the exploded view in Figure 3-4.

Caution: Forcing a misaligned power supply into place can damage the power supply and/or the chassis backplane.

   c. With the power supply ① properly inserted into the opening, carefully slide the power supply forward until it is connected to the backplane. The front panel should be flush with the face of the chassis. If significant resistance is encountered before the front panel is flush, remove and reinsert the power supply. Do not force the power supply into place.
   d. Secure the power supply to the chassis ⑤ by using a screwdriver to tighten the two slotted screws ⑥ on the front panel of the power supply. For proper chassis grounding, the screws must be properly tightened.

5. If you are installing a second power supply, pull open the two latches on the blank plate over slot PS2 until the plate is released. Remove the blank plate from the second power supply slot (keep the blank plate in the event you need to remove the power supply), and repeat steps 1–4.

Figure 3-4 Installing the Power Supply Module(s)



① 7C203-1 power supply
② Power supply handle
③ Module metal guide
④ Chassis metal guide
⑤ 7C103 chassis
⑥ Captive screws

Note: To install the modules, refer to the module installation guide for the installation instructions. Before you power up the chassis, it is recommended that you complete the installation of the modules in the chassis.

After completing the power supply and module installations, the chassis is ready to be powered up. Proceed to Section 3.2.6 for instructions to power up the chassis.

3.2.6 Removing a Power Supply

To remove a 7C203-1 power supply, refer to Section 3.2.5 and proceed as follows:

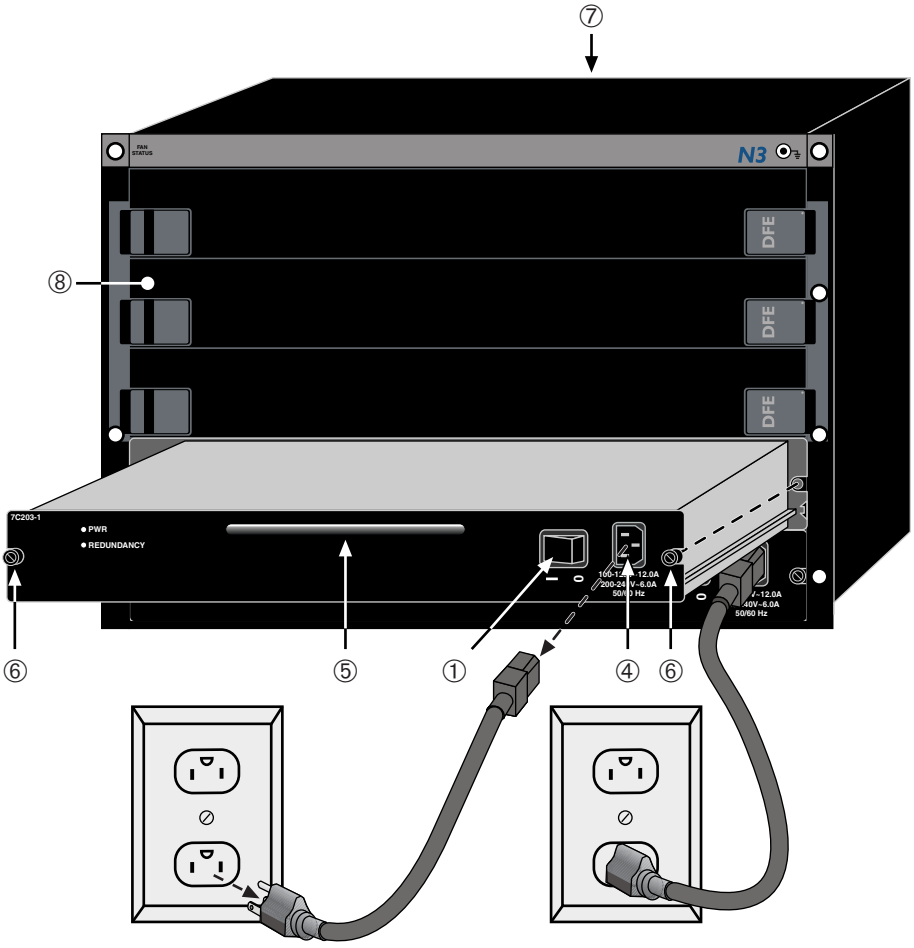
1. Attach the anti-static wrist strap as described in Section 3.2.4 before handling the power supply module.

Caution: Always set the **0/|** power switch to **0** before removing a power supply from the chassis.

2. Set the power supply **0/|** Power switch ① to **0**.
3. Unplug the power cord ② from the dedicated 15A/120 Vac outlet ③.
4. Unplug the power cord ② from the ac power socket ④ of the power supply ⑤.
5. Unscrew the two captive slotted-head screws ⑥ to release the power supply ⑤ from the chassis ⑦.
6. To remove the power supply ⑤ from the chassis ⑦, pull the power supply straight out of the chassis and place it on an antistatic surface on in an antistatic bag for future use.

Caution: If you plan to operate the chassis with only one power supply, make sure to install a cover plate (similar to ⑧) in place of the removed power supply to contain EMI radiation.

Figure 3-5 Removing a Power Supply from a Powered Up Chassis



① Power switch
② AC power cord
③ 15A/120 Vac power outlet
④ AC power connector
⑤ Power supply
⑥ Captive slotted-head screw
⑦ N3 chassis
⑧ Example of blank plate

3.3 POWERING UP THE CHASSIS

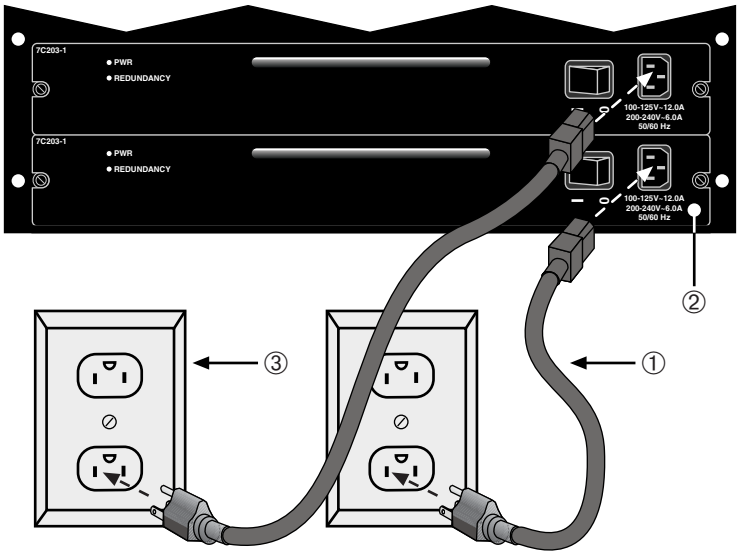
To power up the chassis, refer to Figure 3-6 and proceed as follows:

Note: If two power supplies are going to be installed, repeat the following procedure for each power supply.

For proper redundancy using two 7C203-1 power supplies, the power cord from each power supply must be connected to a dedicated 15-Ampere ac power circuit.

1. Plug one end of the power cord ① (supplied with the power supply) into the ac power socket on the front panel of the power supply ②. See Figure 3-6 for the power connections.

Figure 3-6 Connecting the Power Supply AC Power Cord



① Power cord ② Front panel ac power socket ③ Power outlet (120 Vac, 15A)

2. Plug the other end of the power cord into a dedicated 15A/120 Vac outlet ③ for the 7C203-1.
3. If you are installing two power supplies, repeat steps 1 and 2, otherwise, proceed to step 4. For power redundancy, plug the power cord from the second power supply into a separately fused 15A/120 Vac outlet.
4. Set the **0/I** Power switch on the front panel of each power supply ② to **I**.
5. Ensure that the Power LED is green.

6. Ensure that all fans in the fan tray unit are operating properly when power is received from the power supply modules (Fan Status LED will be green). For more information on the power supply and fan tray LEDs, refer back to Section 2.3.

If you experience any problems with this installation, contact Enterasys Networks for assistance.

3.4 REMOVING AND REINSTALLING THE FAN TRAY

The 7C103 chassis is factory equipped with a removable fan tray 7C403. This allows for easy periodic cleaning and/or replacement if a problem occurs with fan operation. A flat blade screwdriver is needed to remove and reinstall the fan tray. To remove and reinstall the fan tray, refer to Section 3.4.1 and Section 3.4.2.

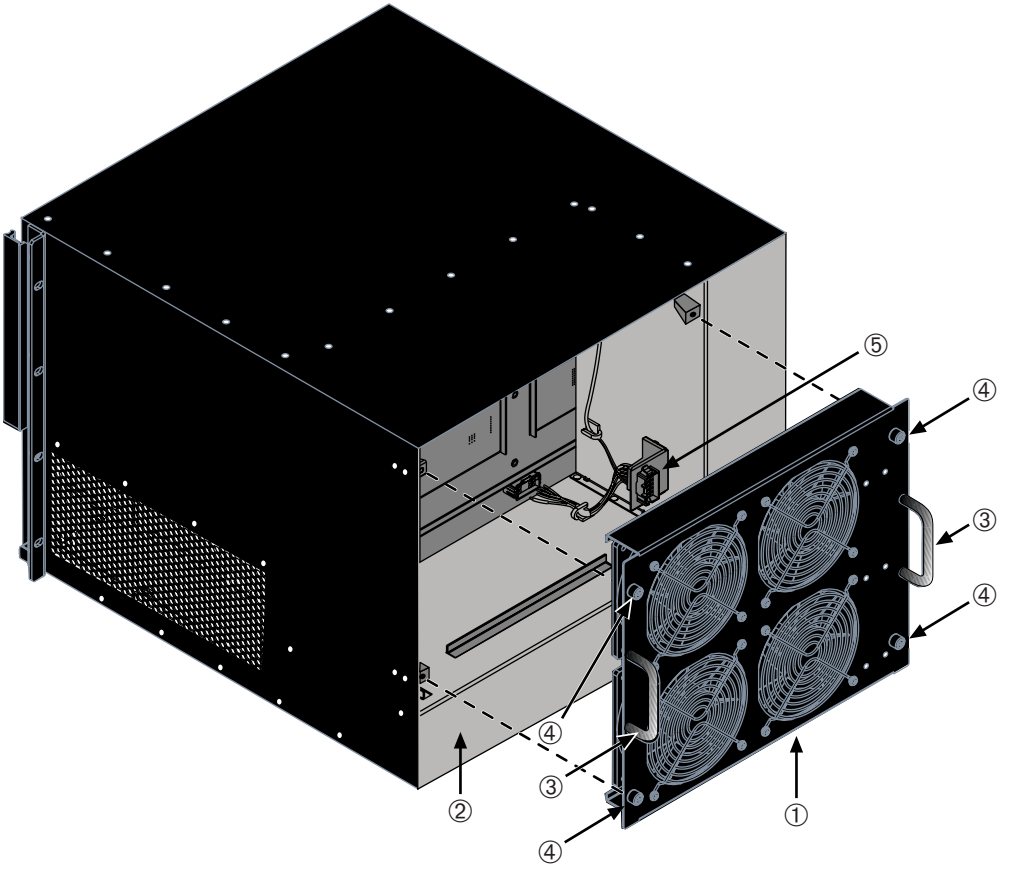
Caution: The fan tray is hot swappable. However, do not run the chassis for extended periods of time without the fan tray, as the chassis will quickly overheat and cause component damage.

3.4.1 Removing the Fan Tray

To remove the fan tray, refer to Figure 3-7 and proceed as follows:

1. Locate the ESD wrist strap shipped with the chassis. Attach the ESD wrist strap to your wrist and plug the cable from the ESD wrist strap into the ESD grounding receptacle at the front-upper right corner of the chassis.
2. While holding the fan tray ① in place against the rear of the chassis ②, use a flat blade screwdriver to loosen the four captive screws ④ that secure the fan tray to the rear of the chassis.
3. Using the fan tray handles ③, pull the fan tray ① straight out and away from the chassis ②.

Figure 3-7 Removing the Fan Tray



① Fan tray
② 7C103 chassis
③ Fan Tray handles
④ Captive screws
⑤ Self-aligning ac power connector

3.4.2 Reinstalling the Fan Tray

To reinstall the fan tray, refer back to Figure 3-7 and proceed as follows:

1. Locate the ESD wrist strap shipped with the 7C103 chassis. Attach the ESD wrist strap to your wrist and plug the cable from the ESD wrist strap into the ESD grounding receptacle at the front upper-right corner of the chassis.
2. Hold the fan tray ① by its handles ③ and align the four fan tray captive screws ④ with the tapped holes in the rear of the chassis.

Caution: Although the fan tray has a self-aligning power connector that mates with the one in the rear of the chassis, do not force the fan tray into place, as it may damage the chassis and fan tray.

3. Slide the fan tray ① into the chassis ② until the faceplate of the tray is flush with the rear of the 7C103 chassis. If there is strong resistance, remove the fan tray and reinsert it.
4. Once the tray ① is in place, tighten the four captive screws ④ to secure the tray to the rear of the chassis ②.

A

Specifications and Regulatory Compliance

This appendix provides operating specifications for the 7C103 chassis. Enterasys Networks reserves the right to change the specifications at any time without notice.

A.1 PHYSICAL SPECIFICATIONS

The physical specifications for the 7C103 chassis, the 7C203-1 power supply module, and the 7C403 fan tray are as follows:

7C103 Chassis

Dimensions:	35.56 H x 44.45 W x 49.53 (cm) 14.0 H x 17.5 W x 19.5 D (in.)
Weight (with factory installed fan tray):	19.1 kg (42.0 lb)
MTBF (Predicted):	792,909 hours

7C203-1 Power Supply Module

Dimensions:	41.05 H x 6.04 W x 28.44 D (cm) 16.16 H x 2.38 W x 11.20 D (in.)
Weight:	5.5 kg (12.0 lb)
MTBF (Predicted):	200,000 hours

7C403 Fan Tray

Dimensions:	27.62 H x 33.0 W x 4.13 D (cm) 10.875 H x 13.0 W x 1.625 D (in.)
Weight:	2.27 kg (5.0 lb)
MTBF (Predicted):	1,712,590 hours

A.2 POWER SUPPLY REQUIREMENTS

The requirements for the 7C203-1 ac power supply module are as follows:

Input Frequency:	50 to 60 Hz
Input Voltage Range:	100 to 125 Vac
Input Current:	12 A maximum
Input Power:	863 W maximum

A.3 ENVIRONMENTAL REQUIREMENTS

The environmental requirements for the 7C103 chassis, 7C203-1 power supply module, and 7C403 fan tray are as follows:

Operating Temperature:	5°C to 40°C (41°F to 104°F)
Storage Temperature:	-30°C to 73°C (-22°F to 164°F)
Operating Relative Humidity:	5% to 90% (non-condensing)

A.4 REGULATORY COMPLIANCE

This equipment meets the following safety and electromagnetic compatibility (EMC) requirements:

Safety:	UL 60950, CSA C22.2 No. 60950, 73/23/EEC, EN 60950, IEC 60950
Electromagnetic Compatibility (EMC):	47 CFR Parts 2 and 15, CSA C108.8, 89/336/EEC, EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024, AS/NZS CISPR 22, VCCI V-3